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	Application No.	Applicant(s)	
	10/769,387	LEE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Mitchell R. Slavitt	2651	
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The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFF	(OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is sub-	nis application. If not included cation will be mailed in due course	∍. <b>THIS</b> ⊫e initiative
1. This communication is responsive to the application filed 1/2	<u>′31/04</u> .		
2. The allowed claim(s) is/are <u>1-11</u> .			
3. $\boxtimes$ The drawings filed on <u>31 January 2004</u> are accepted by the	Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority unda)</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirem	ents
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAM s reason(s) why the oath or do	INER'S AMENDMENT or NOTICE eclaration is deficient.	E OF
6. CORRECTED DRAWINGS ( as "replacement sheets") must	t be submitted.	,	
(a) ☐ including changes required by the Notice of Draftsperso		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	ζ ,		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the call the second in the sec	drawings in the front (not the back)	of
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F			e
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of References Cited (PTO-892)		mal Patent Application (PTO-152)	ı
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sum Paper No /Ma		
<ul> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 1/31/04</li> <li>Examiner's Comment Regarding Requirement for Deposit</li> </ul>	_	nil Date nendment/Comment	
of Biological Material		atement of Reasons for Allowance	•
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## Reasons for Allowance

1. Claims 1-11 are allowed as the prior art does not teach or suggest the applicant's invention. Independent claim 1 teaches a method of writing product servo sectors to a disk comprising the steps of:

- (a) inserting a head positioning pin of an external spiral servo writer into the HAD, the head positioning pin for engaging the actuator arm:
- (b) using the external spirl servo writer to derive a redial location of the head;
- (c) actuating the head positioning pin in response to the radial location of the head in a closed loop system to rotate the actuator arm about the pivot in order to position the head radially over the disk while:

writing a plurality of reference servo sectors in a substantially circular reference path, each reference servo sector comprising a sync mark and a plurality of servo bursts; and

writing a plurality of spiral tracks, each spiral track comprising a high frequency signal interrupted at a predetermined interval by a sync mark;

- (d) removing the head positioning pin from the HAD
- (e) synchronizing a servo write clock by:

using the head internal to the disk drive to read the servo bursts in the reference servo sectors to generate a position error signal used to maintain the head along the circular reference path;

using the head internal to the disk drive to read the sync marks in the reference servo sectors to generate a reference sync mark detect signal; and Application/Control Number: 10/769,387

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synchronizing the servo write clock in response to the reference sync mark detect signal; and

(f) writing the product servo sectors to the disk to define a plurality of radially spaced, concentric data tracks by:

using the head internal to the disk drive to read the high frequency signal in the spiral tracks to generate a position error signal used to maintain the head along a substantially circular target path;

using the head internal to the disk drive to read the sync marks in the spiral tracks to generate a spiral sync mark detect signal;

maintaining synchronization of the servo write clock in response to the spiral sync mark detect signal; and

using the servo write clock and the head internal to the disk drive to write the product servo sectors along the circular target path.

Independent claim 11 teaches a disk drive comprising control circuitry and a dead disk assembly. A disk comprises:

- (a) a plurality of reference servo sectors in a substantially circular reference path, each reference servo sector comprising a sync mark and a plurality of servo bursts, the servo bursts for maintaining the head along the circular reference path while reading the sync marks in the reference servo sectors to generate a reference sync mark detect signal for use in synchronizing a servo write clock;
- (b) a plurality of spiral tracks, each spiral track comprising a high frequency signal interrupted at a predetermined interval by a sync mark, the high

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frequency signal for maintaining the head along a circular target path while reading the sync marks in the spiral tracks to generate a spiral sync mark detect signal for use in maintaining synchronization of the servo write cloak; and

(c) a plurality of product servo sectors written using the servo write clock, the product servo sectors defining a plurality of radially spaced, concentric tracks.

## Conclusion

2. inquiry concerning this communication or earlier communications from the examiner should be directed to Mitchell R. Slavitt whose telephone number is (571) 272-7562. The examiner can normally be reached on M-F (6:30-4:00), 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600